

**A joint collaboration between Stark County Public Health Agencies:**

Alliance City Health Department

Canton City Public Health

Massillon City Health Department

Stark County Health Department

**Stark County, Ohio**

**April 13, 2020 Epi Report**

Background from [www.cdc.gov](http://www.cdc.gov): Coronavirus disease 2019 (COVID-19) is a respiratory illness that can spread from person to person. The virus that causes COVID-19 is a novel coronavirus that was first identified during an investigation into an outbreak in Wuhan, China.

Patients with COVID-19 have had mild to severe respiratory illness with symptoms of:

- Fever
- Cough
- Shortness of breath

All data contained is preliminary and is subject to change as more information is reported to Ohio Department of Health (ODH). Data presented in this document is based on data as of 4.13.2020. Cases from previous days are likely to change as more information is entered.

Counts and rates are based on date of illness onset. If onset date is unknown, the earliest known date is utilized. Graphs and tables contained in this document are based on laboratory-confirmed cases.

Any rates based on counts less than 10 are considered unreliable and caution should be exercised when interpreting. Due to testing restrictions, data may be skewed. Report compiled by Canton City Public Health.

For questions regarding this report, please contact:

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Data is sourced from: [coronavirus.ohio.gov](http://coronavirus.ohio.gov), ODH data warehouse, and [census.gov](http://census.gov). "These data were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions."

# Stark County Epi Situational Report - COVID-19

Table 1 as of: 04/13/2020 2:00PM

Next report scheduled: 4/15/2020

## Cases Reported to Stark LHDs

Data as of 04.13.2020 1400

Positive/Confirmed	162	
Hospitalized	43	26.54%
ICU Admissions	12	7.41%
Deaths	15	9.26%

## Cases Reported to ODH\*

Data as of 04.13.2020 1400

Positive/Confirmed	6881	
Hospitalized	2033	29.55%
ICU Admissions	613	8.91%
Deaths	268	3.89%

## Descriptive Statistics for Stark County Confirmed Cases

### Gender

Male	67	41.36%	
Female	95	58.64%	
Total	162		

### Age Range (in Years)

16	to	97	56.5
Min		Max	Median

### Race

	White	Black	Other	Unknown
Count	77	10	19	56
%	48%	6%	12%	35%

### Ethnicity

	Hispanic	Non-Hisp	Unknown
Count	1	64	97
%	0.6%	39.5%	59.9%

## Illness Information for Stark County Confirmed Cases

### Illness Onset Date or Earliest Known Date

2/25/2020 through 4/12/2020

### Pre-existing Conditions

Yes	79	49%
No	83	51%

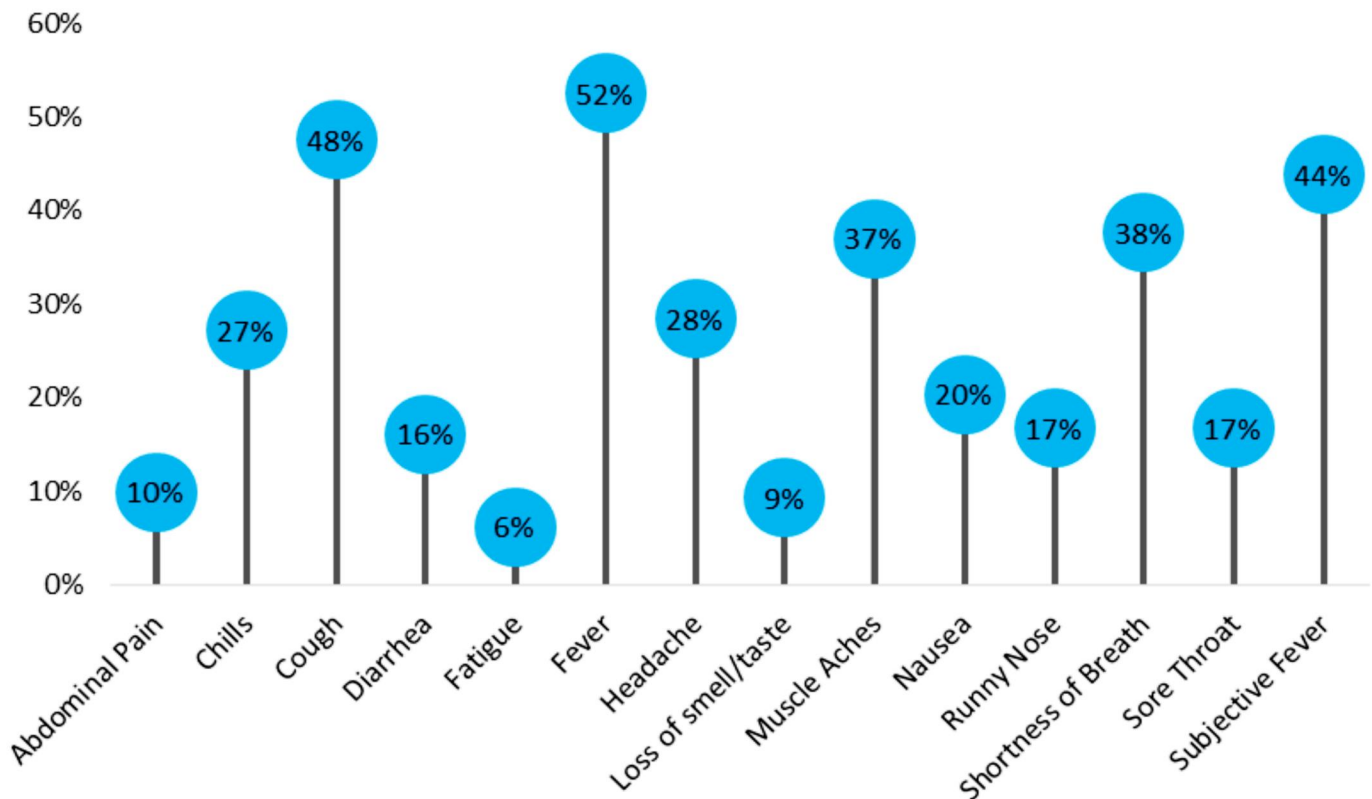
### Hospitalized

Yes	43	27%
No	78	48%
Not reported	41	25%

### If hospitalized, in ICU?

Yes	12	28%
No	31	72%

## Signs & Symptoms in Confirmed Stark County Cases Graph 1



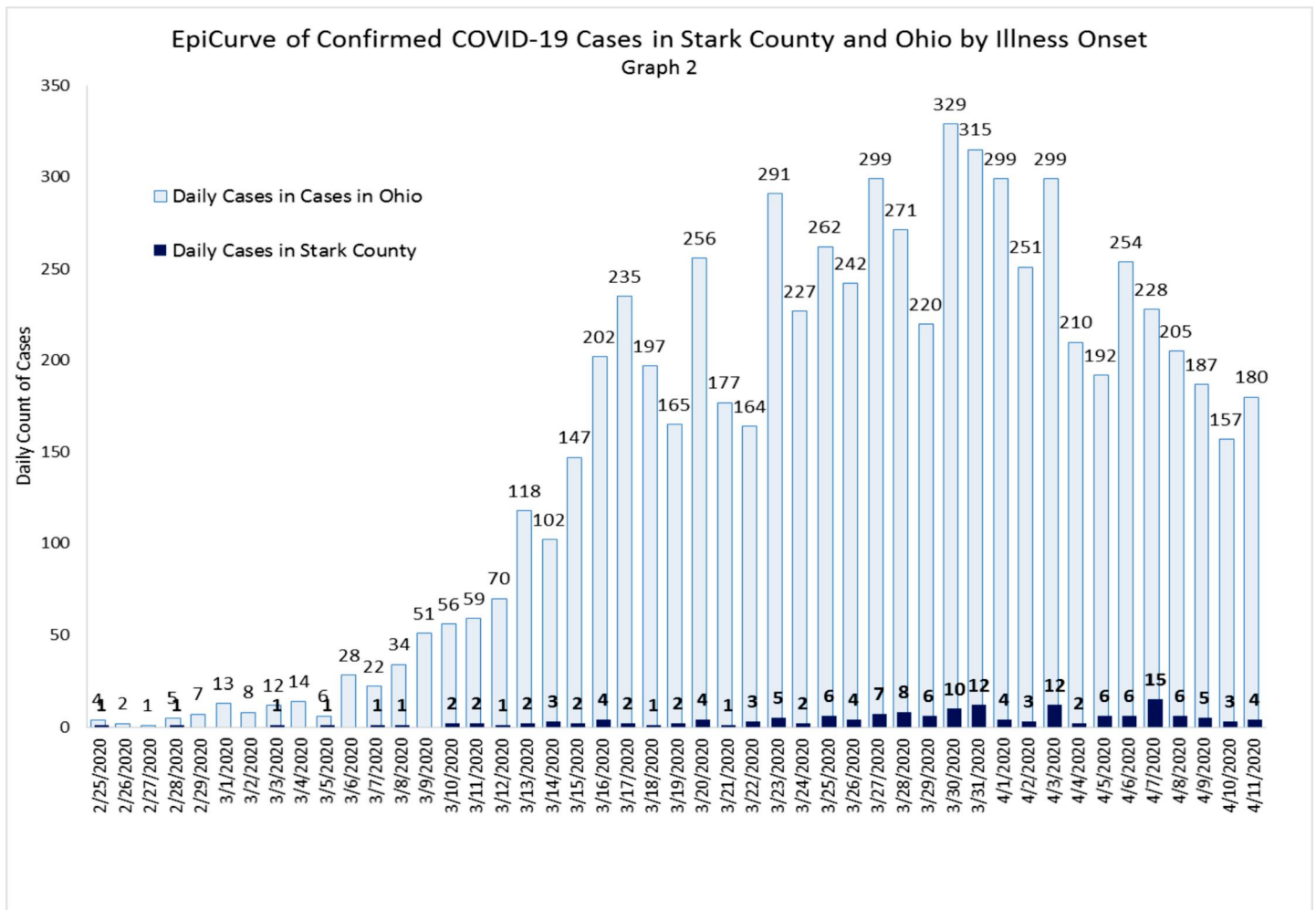
Signs/Symptoms Reported by Cases

Table 2

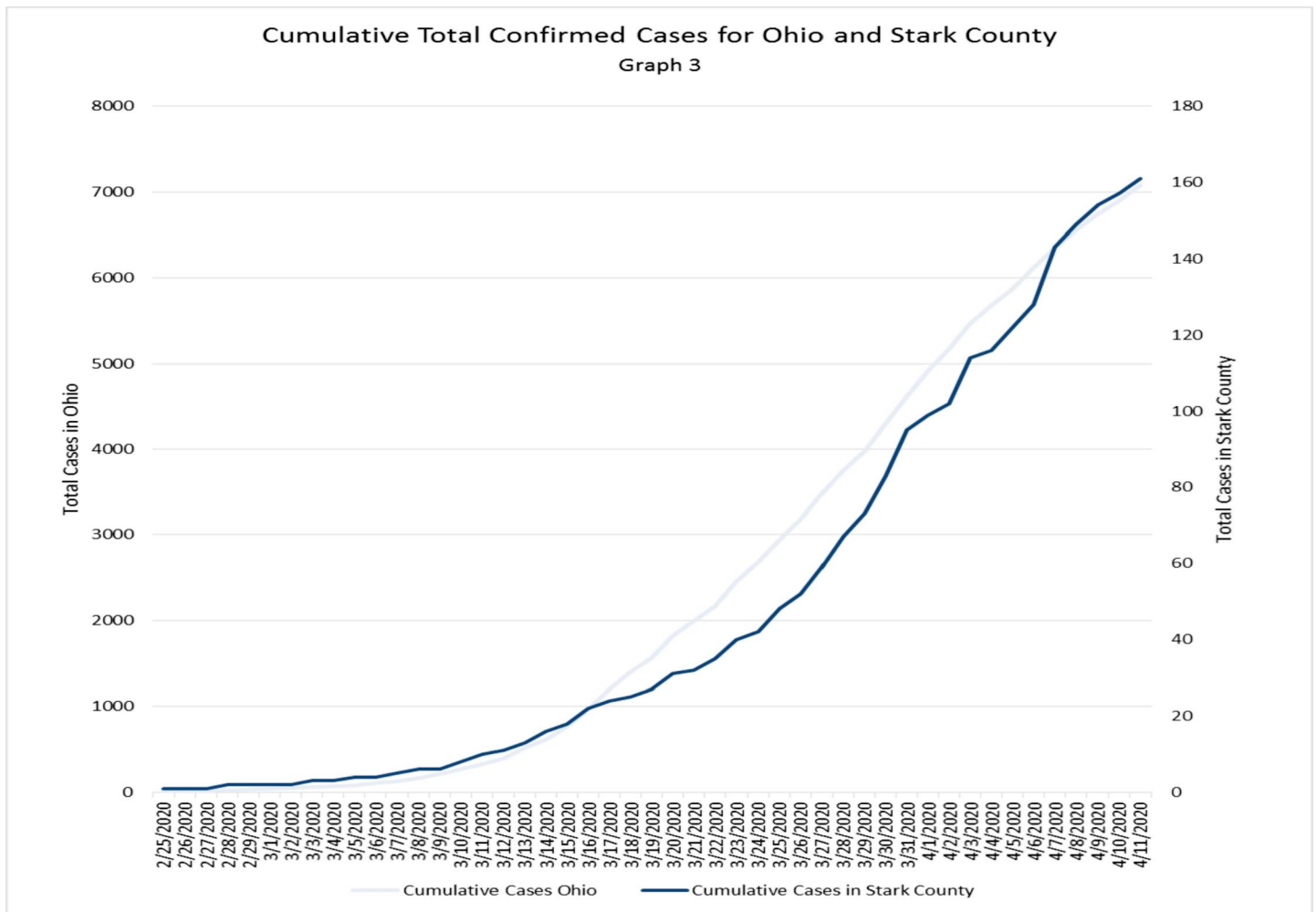
	Yes	No	% Yes
Abdominal Pain	16	64	9.9%
Chills	44	30	27.2%
Cough	77	20	47.5%
Diarrhea	26	0	16.0%
Fatigue	10	0	6.2%
Fever	85	24	52.5%
Headache	46	5	28.4%
Loss of smell/taste	15	0	9.3%
Muscle Aches	60	21	37.0%
Nausea	33	49	20.4%
Runny Nose	27	46	16.7%
Shortness of Breath	61	33	37.7%
Sore Throat	27	47	16.7%
Subjective Fever	71	22	43.8%

Graph 1 shows the incidence of signs and symptoms reported by confirmed cases of COVID-19 in Stark County. Two symptoms that are similar are subjective fever where in a patient felt feverish and fever in which is defined as a fever of  $>100.4^{\circ}\text{F}$  ( $38^{\circ}\text{C}$ ). Additional symptoms may be added in the future as prevalence increases.

Table 2 is a count of known symptoms and number of cases in which those symptoms appear. Due to missing information, totals may not equal the total count of cases. Symptoms are listed in alphabetical order.

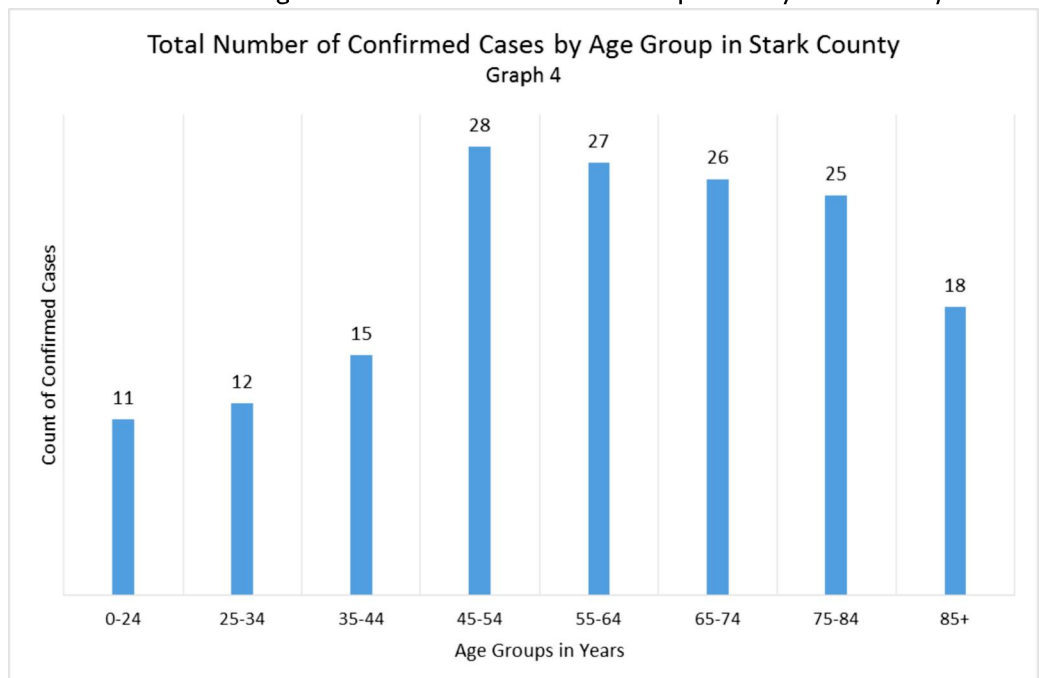


Graph 2 shows the EpiCurve which displays the total number of laboratory-confirmed cases per day, based on the illness onset date for Stark County and Ohio. If the illness onset date is not available, the earliest known date is utilized, which could include the date the specimen was collected, the date the test resulted or the date reported to the local health department. Counts will change as additional information is collected. Totals may not equal the totals on Table 1 depending on when data was accessed. Stark County's first confirmed case reported an illness onset date of 2/25/2020, while Ohio had cases prior to 2/25/2020, those are not included.

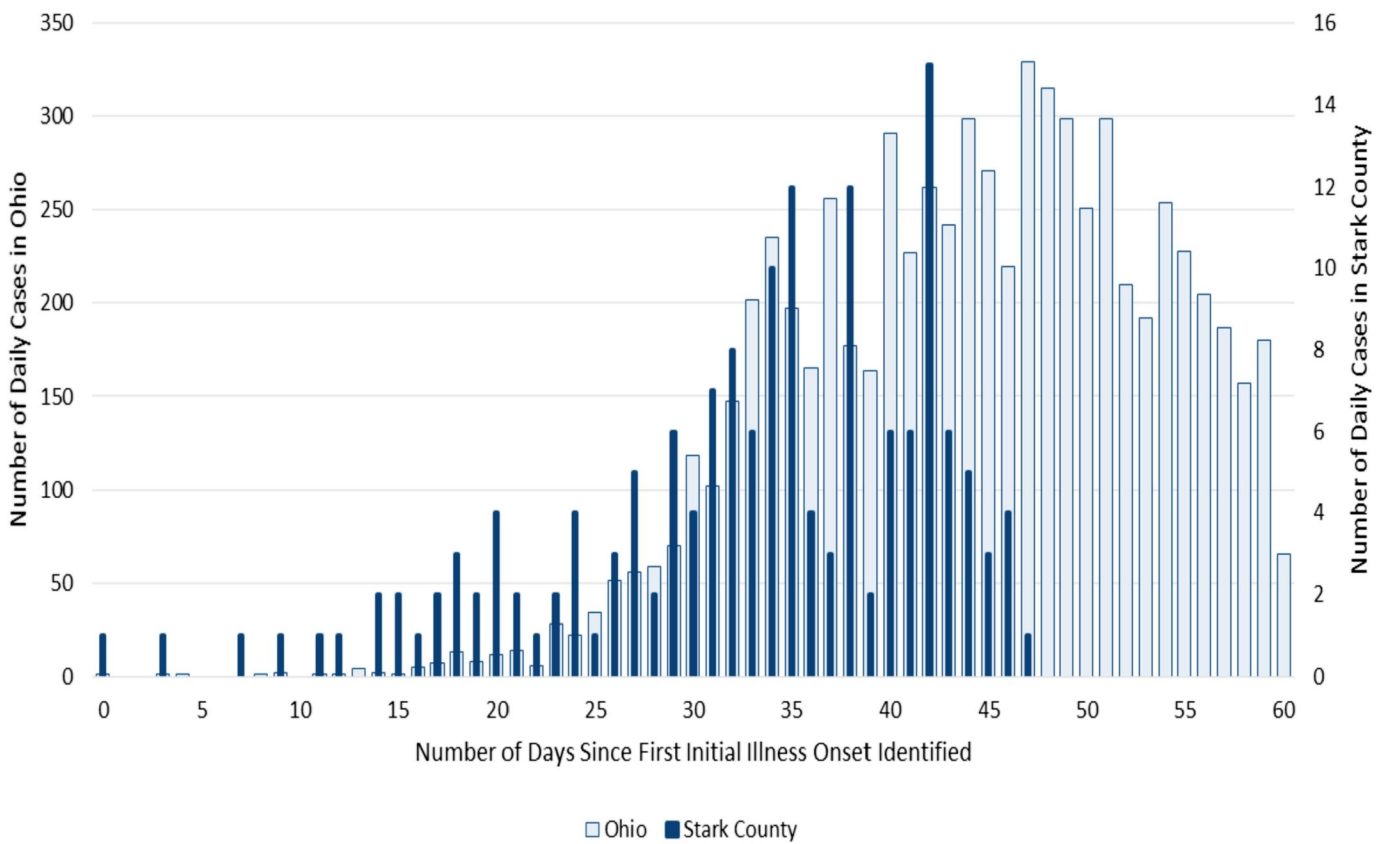


Graph 3 shows the cumulative cases in Ohio (left side/primary axis) and Stark County (right side/secondary axis) by date. The timeline begins with 2/25/2020 due to this date being the earliest illness onset date reported by a laboratory-confirmed case in Stark County.

Graph 4 shows the total number of confirmed cases by age group. Due to low numbers in Stark County, the age groups are different than what is reported on a state level. Age groups may be broken down further as new cases emerge.



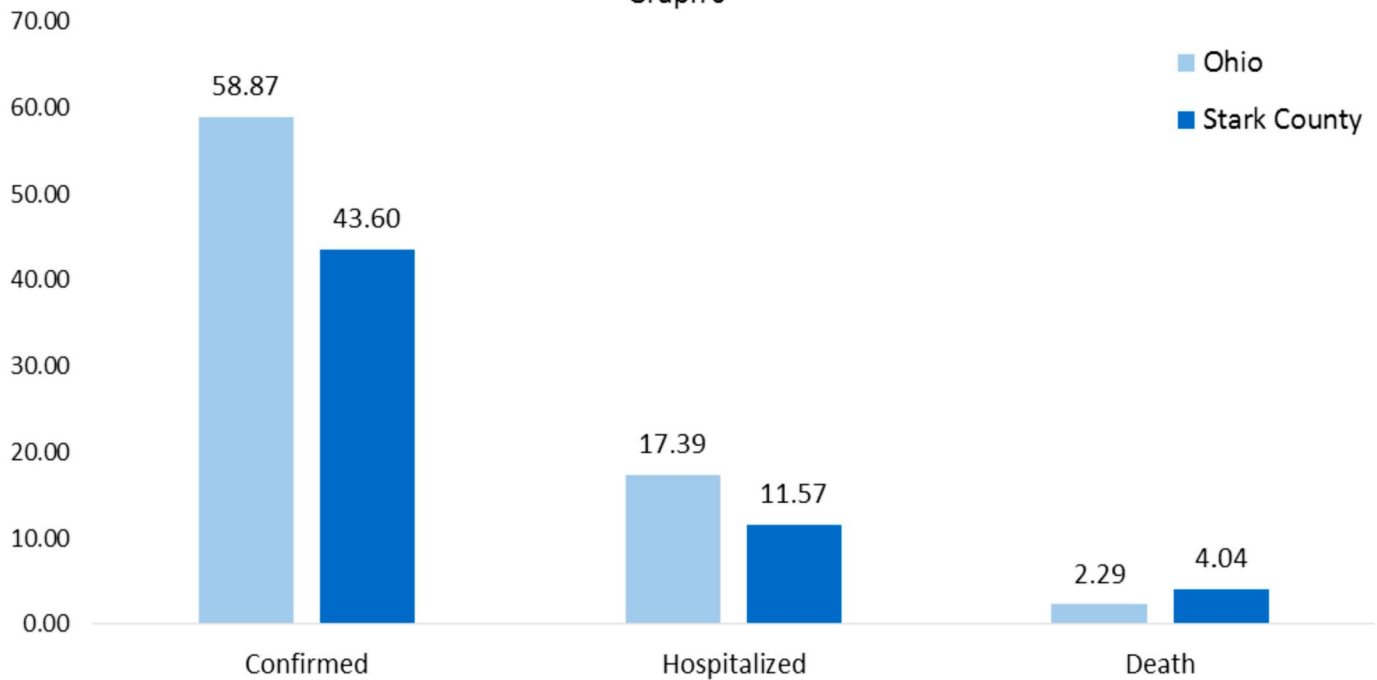
Daily Count of Cases Since First Initial Illness Onset Identified  
Graph 5



Graph 5 is based on number of days that have passed since the date of illness onset was reported by the first laboratory-confirmed case in Stark County and Ohio (Day 0). For Ohio, the first date of illness onset reported by a laboratory-confirmed case is 02/07/2020. For Stark County, the first date of illness onset reported by a laboratory-confirmed case was 02/25/2020. The number for total cases in Ohio is on the left/primary axis with Stark County on the right/secondary axis.

## Rates of Confirmed Cases by Population

Graph 6



Counts of Cases	Ohio	Stark County
Confirmed	6881	162
Hospitalized	2033	43
Deaths	268	15

Rates based on 2018 population from data.census.gov.  
 Rates=(count/population)\*100000

Graph 6 shows the rates dependent on the 2018 population in Ohio and Stark County. This graph works to compare cases in different populations by normalizing the cases per 100,000 persons.

- Ohio's rate of laboratory confirmed cases is 1.4x higher than those in Stark County.
- Ohio's rate of laboratory confirmed cases who require hospitalization is 1.5x higher than Stark County's rate.
- Stark County's rate of death due to COVID-19 complications is 1.8x higher than Ohio's rate.

The past reports that were released had an incorrect calculation with rates for Stark County. This error was identified on 4/13/2020 and corrected. Below are the correct rates for the previous reports.

Stark County Rates	3/27/2020	3/30/2020	4/1/2020	4/3/2020	4/6/2020	4/8/2020	4/10/2020
Confirmed	5.65	11.84	13.99	24.49	29.33	30.68	34.18
Hospitalized	1.61	2.69	3.50	4.58	6.19	7.27	8.34
Deaths	0.54	0.81	0.81	1.08	1.88	1.88	2.96